ALPINE
Mobile Media Solutions

NVE N872A

FEATURES GUIDE

REACTION SPEED

With an ultra-fast processor, the NVE-N872A is a truly powerful and flexible navigation solution.

» Using a 12 Channel GPS system in combination with the vehicle speed sensor, gyro sensor and proprietary Alpine map-matching algorithms, results in un-matched vehicle location accuracy and reaction speed.

» Ultra-fast navigation processor (Hitachi SH4) matched with advanced software and database system.

VOICE / TOUCH / REMOTE

Choose how you want to control your navigation system. You decide how you want to use it, with a variety of inputs including: microphone, PulseTouch™ or touch display, and remote control.

» Easily navigate with voice commands using the NVE N872A's supplied microphone.

» Over 300 recognized voice commands for navigation.

» The NVE-N872A even provides voice control over the basic audio functions of AVplus Mobile Multimedia Station, such as an IVA-D310. Simply say "Media iPod" to quickly switch to your iPod, even control track up/down, play/pause, mute and more.

» Input commands via a PulseTouch™ control or touch control display using the advanced Human Machine Interface (HMI).

» Selectable QWERTY or Alphanumeric keyboard input.

» Current Map Button appears on every screen making it easy to quickly switch back to your map view regardless of which menu screen you are in.

» The included remote control makes it simple and intuitive to use the NVE-N872A. Direct buttons for Home, Speak, Traffic, Detour, Delete Destination, Display and Zoom, make the remote control even easier to use.

EASY DESTINATION INPUT

Entering your destination has never been simpler than with Easy Street, Street Name Input and Smart Key Filtering. Just say the name of the street you want, there's no more spelling—making for smoother trips to your desired destination.

» Easy Street Input is a patented Alpine technology that automatically determines what category of road your destination falls under, whether it's a street, avenue or even a parkway. It also calculates if the street requires a North, South, East or West prefix.

» Street Name Input is another patented Alpine technology that let's you simply speak the name of the street you want to enter into the system. No longer do you need to spell out each letter to get to where you're going, simply say the name then say the full street number, for the easiest input you've ever used.

» Smart Key Filtering takes the hassle out of entering your destination when using either the touch screen or remote control. Using advanced database software the NVE-N872A will automatically filter out un-necessary letters from your choices, leaving only those, which spell the name of a street in your selected destination area.

» Home allows you to enter your home address then save it as your home location, even assign it a custom icon. Once preset simply press the Home button on the remote control or say "Home" to automatically calculate a route from your current location to your home.

» **Choose from 14 different ways to enter your destination:**

1. Destination by Address
2. POI by Place Name
3. POI by Place Type
4. Destination by Previous Destination
5. Destination using the Address Book
6. Destination by Intersection
7. POI by Phone Number
8. Destination by Freeway Entrance
9. Destination by Latitude and Longitude
10. Destination by Today's Plan
11. Destination by Home
12. Destination using Favorites
13. Destination using Zagats
14. Destination by Map Scrolling

» Favorites allow you to program your 5 favorite destinations, 5 favorite POI names, 5 favorite POI types and 5 favorite Spots to customize your navigation to suit you.

MULTI-ROUTE VIEWING

Enjoy the option of multi-route viewing before you confirm your route. Choose between quickest, shortest, maximize freeways, minimize freeways and minimize toll road routes, making your trip as easy as possible.

» Select if you wish to include the use of ferries when calculating your desired route. For example use this function to plot a route from Lewes Delaware to Cape May NJ to see the Tulip Festival.

» Display Entire Route allows you to view the entire route on a map with a large enough view that you can see the entire route, so that you can verify the navigation system's route calculation.

SATELLITE TRAFFIC DATA:
THE BEST OPTION

The NVE-N872A comes satellite traffic ready. Just hook it up to an XM NavTraffic or Sirius Traffic receiver, and get instant traffic congestion levels by color (XM NavTraffic or Sirius Traffic subscription fee required).

The NVE-N872A can analyze your route for reported traffic congestion, then provide you with an alternate route using the Detour feature. It also displays traffic incidents based on your current location, placing easy to read icons on your map (satellite traffic service available in U.S. only).

- Easily see traffic congestion levels, displayed on screen as a series of color-coded icons.
- Green (circle) equals traffic speeds of 45+ mph.
- Yellow (diamond) equals traffic speeds of 10-45mph.
- Red (square) equals traffic speeds of 0-10mph.
- The NVE-N872A will analyze traffic data reports on the route within 30 miles of the vehicle's position. If traffic congestion is found, the system will display a message with the distance to the congestion, and the anticipated delay if the congestion is not detoured.
- Use the Detour feature even if traffic is not reported. Choose to Detour your route by distance, in 5 mile increments for up to 30 miles.
- **10 different incident icon types** can be displayed on-screen:

1. Accident
2. Blockage
3. Construction / Road Works
4. Danger
5. Debris
6. Disabled Vehicle
7. Information
8. Sports Event
9. Traffic Jam
10. Weather

- Click the on screen incident icon for additional information.
- Traffic Incident List displays the current traffic incidents in list form, based on the current location of the vehicle.
- Sign up for the XM NavTraffic Data service and get current weather conditions or a five-day forecast. Switch cities and get the weather forecast for the area you are considering traveling to (subject to XM NavTraffic subscription fee).
- Traffic information is updated approximately every 5 minutes (dependant of service provider).
- Weather information is updated approximately every 15 minutes (dependant on service provider).
- Switch cities and get the current weather conditions or five-day forecast so you can know what the weather is like before you travel. It's as easy a saying "Five-Day Forecast".
- For more information on the Traffic and Weather service from XM, please visit the XM NavTraffic website: www.xmradio.com/xmnavtraffic/about.jsp
- For more information on the Traffic service from Sirius, please visit the Sirius website:

  www.sirius.com

MISS A TURN? JUST DRIVE

The NVE-N872A offers the fastest route re-calculation speed. So if you miss a turn, don't worry. Just keep driving and NVE N872A will QUICKLY re-configure a new route for you.

» Auto Re-route uses the combination of 12 GPS satellite tracking, vehicle speed sensor, gyro sensor, ultra-fast navigation processor and Alpine's proprietary routing algorithms, giving you peace of mind in knowing that it is flexible enough to adapt to your changing plans. If you miss a turn the NVE-N872A will almost instantly recognize the change and rapidly plot a new route keeping you seamlessly moving along your way.

» Multi-route viewing let's you see how you want to get where you're going before you confirm your destination. Choose from: quickest, shortest, maximum freeways, minimum freeways or minimum toll roads. You can even select if you wish to include the use of ferries when calculating your route.

» Next Maneuver Indication with Turn by Turn, Real Time Voice Guidance with CD like quality speech gives easy directions of where your next turn will be.

» In addition to the CD like quality speech for Turn by Turn voice guidance, the NVE-N872A will announce the actual street name, using an advanced text to speech engine, making it intuitive to understand where your next turn will happen

» Select up to 3 roads and areas to avoid, making it easy to by-pass areas of town you know are prone to traffic. Once you select a place to avoid, choose the total exclusion area from ½ mile, 1 mile or 2 miles.

SMART CITY MAP

With our ultra-detailed Smart City maps, you'll be able to see building footprints, landmark icons and building icons.

» Smart City Maps provide easy 'At a Glance' recognition, taking the stress out of navigating through busy downtown traffic, and making finding specific locations and your destination much easier.

» **Smart City Maps cover 37 major cities.**

» The Landmark icons provide a rendition of the actual building on- screen and can be displayed on the map when map scale is 1 mile or less. Scroll over the building to find out the name and click on it to find the closest address.

» Building Outlines provide a rendering of the actual building footprint and can be displayed on the map when scale is 1/16 mile or less.

» One-Way Icons provide information on one way streets displaying arrows on screen to signify the direction of travel. These can be displayed when map scale is 1/16 mile or less.

» Use the 'Trail' function when traveling outside of a mapped area, such as off-road adventures. A trail of breadcrumbs where you have driven for the last 150 miles can be displayed on the map screen for easy location of previously traveled areas.

» A special 350 mile zoom scale is available when you need to view a very long route. This map view shows the entire country using a True Terrain view to simulate the topography of the area.

CONFIDENT VOICE GUIDANCE

Anticipating upcoming turns and highway exits is easy with real time voice guidance. Choose your level of interaction for the spoken directions that conveniently guide you through every step of your route.

» Next Maneuver Indication with Turn by Turn, Real Time Voice Guidance with CD Quality speech gives easy directions of where your next turn will be.

» Announces the street name during voice guidance, using a text to speech engine, making it intuitive to understand where your next turn will happen.

» Navi-mix automatically mutes your audio volume making it easy to hear the next navigation instructions. This means that you can confidently listen to your favorite music without fearing that you might miss a turn.

» Select from English, Spanish and French languages for your desired voice guidance and on screen information.

MULTIPLE MAP DISPLAY OPTIONS:

With multiple viewing options, you can make the NVE-N872A suit your needs.

» **Choose from four different map displays:**

1. Map Route Guidance Display: shows the entire map on your display.
2. Split Route Guidance Display: vertically splits the display showing the map on the right and the next turn arrow guidance on the left.
3. Arrow Route Guidance Display: shows a full screen version of the next turn arrow guidance.
4. Maneuver List Guidance: shows a turn by turn list with street names, for your entire route.

» Hybrid map setting allows the navigation system to automatically choose the appropriate map display for the given situation.

» Change the orientation of the map. Choose to have North always at the top of your display, or have your vehicle always pointing to the top of your display and have the map rotating around your position as you drive.

» Manually zoom your map view between 1/32 mile and 350 mile views to get the display area you require.

» Auto zoom Map allows you to select whether to display the zoom map or not when approaching a maneuver point, such as an up coming intersection.

» **Map Color allows you to choose the color of the map display:**

Day: maintains a bright tone screen even while your headlights are on.

Night: maintains a dark tone screen even when your headlights are off.

Auto: switches automatically between Day and Night screen color when your headlights are turned on an off.

NEVER MISS YOUR EXIT AGAIN

True Freeway Junction allows you to view all freeway interchanges as they really are—clear directions show which of the many exit lanes you will need to follow. Take freeway travel to a new level of ease.

» True Freeway Junction view zooms in to a close up view of the exact freeway junction that you are approaching. The on-screen display shows exactly how many exit lanes there are, and clearly labels which lane you need to use. Combined with the Next Maneuver Indication with Turn by Turn, Real Time Voice Guidance, finding your way around the country's freeways has never been simpler.

ZAGAT SURVEY® - RATING ICONS

Eating on the road has never been better (or smarter) than with your built-in Zagat Survey® guide. Now you can sort restaurants by neighborhood, style of cuisine, cost, decor, and service, even find one along the way, on your cross-country adventure.

» Zagat Survey® Data provides an easy way to find the exact restaurant you want.

» Search by region, neighborhood, and food type, Zagat Survey® will then give you a list of restaurants that meet your requirements.

» Zagat Survey® Data provides rating information on Food, Décor, Service giving a score out of a possible 30 points. In addition it will also give you an averaged meal Price.

» Zagat Survey® Data also provides a brief description of the restaurant, which can be read back through the NVE-N872A's text to speech engine.

» Zagat Survey® Data even provides the restaurant's phone number make it quick and easy to call ahead for reservations.

POINTS OF INTEREST

14 Point Of Interest map icon types give you a more complete perspective on things. Icons include hospitals, schools, post offices and more. You can even choose restaurants by food type.

1. Gas / Fuel Station
2. Restaurants
3. Parking Garages
4. Parking Lots
5. ATMs
6. Banks
7. Convenience Stores
8. Grocery Stores
9. Freeway Exits
10. Hotels & Motels
11. Bed & Breakfast
12. Hospitals
13. Post Offices
14. Schools

» **Choose from 14 different POI icons to display on screen:**

1. Amoco
2. BP
3. Chevron
4. Exxon
5. Mobil
6. Shell
7. Texaco
8. Union76

» **Gas / Fuel Station Icons will be displayed by brand from participating companies, including:**

» Click an on screen POI icon for location information, or to set it as a waypoint, add it to your favorites, address book or more.

» Find Local POI allows you to easily search for a POI near your set destination. Make your selection by Category and Place Type.

» Find POI Along Route allows you to search for POI's along your set route. Search by Place Type and choose the desired distance from your set route, then simply set it as a waypoint to have your route altered to include your side trip on the way to your final destination.

» Multiple ways to enter a POI as a destination: POI by Place Name, POI by Place Type, or POI by Phone Number.

ZENRIN INTERSTATE EXIT / POI DATA

No more guessing what amenities are available along your interstate route.

» Zenrin Interstate Exit / POI database provides POI information of what amenities and services can be found within a 5 mile radius of each interstate exit.

» Find POI Along Route allows you to search for POI's along your set route. Search by Place Type and choose the desired distance from your set route. Then simply set your selection as a waypoint to have your route altered to include your side trip on the way to your final destination.

PLAN YOUR DAY

Use Today's Plan to make those busy days a little easier. Whether you have a specific order for the places you need to go, or if you want to save time by doing everything in the most efficient way possible, and still choose where you end your day. Even store up to 100 daily destinations to make things easier.

» Today's Plan will calculate the most efficient travel order for multiple destinations.

» Up to 100 destinations can be stored in Today's Plan.

» Choose to calculate a route for all destinations by Optimum Route or by Input Order, even select where you would like to finish your travels by using the 'Set Last' option.

» Optimum Route calculates a route by minimizing the travel distance between all destinations in Today's Plan.

» By Input Order calculates a route based on the order in which the destinations were input.

» The Set Last option calculates an optimum route while allowing you to determine the last destination on your schedule.

» Home allows you to enter your home address then save it as your home location, even assign it a custom icon. Once preset, simply press the Home button on the remote control or say 'Home' to automatically calculate a route from your current location to your home.

» Add to Favorites with 4 different categories to choose from and 5 entries per category:

5 Favorite **Destinations** – Like your local fitness center

5 Favorite **POI Names** – Like Starbucks

5 Favorite **POI Types** – Like Restaurants

5 Favorite **Spots** - Like National Parks

» Address Book allows you to store up to 300 entries into 10 different customizable folders. Assign Name, Address, and Phone Number, even choose from 49 custom icons for on map identification.

» The Calendar option provides a quick reference tool, displaying today's date and allowing you to search from month to month.

ADDRESS BOOK

Store up to 300 addresses and phone numbers in customizable entries, then instantly recall them when needed, and use them as destinations.

» Address Book allows you to store up to 300 entries into 10 different custom folders. Assign Name, Address, and Phone Number, even choose from 49 custom icons for on map identification.

»

TRIP INFO

This system has everything you could possibly want to know about your trip. Find out average speed, overall speed, maximum speed, driving time, idle time, total time, odometer and current speed. Then use the onboard calculator to find out your vehicle's mileage.

» Average Speed shows the average driving speed while the vehicle has been in motion since the Trip Information was reset.

» Overall Speed shows the average traveling speed since the beginning of the trip, including idle time.

» Maximum Speed shows the maximum speed the vehicle has reached during the trip. This can be independently reset from all the other readings.

» Driving Time shows the total time the vehicle has been moving since the trip was reset.

» Idle Time shows the total time the vehicle was idle (not moving).

» Total Time shows the total elapsed time of the trip, i.e. driving time plus idle time.

» Odometer shows the total distance traveled since the odometer was last reset. This can be independently reset from all the other readings.

» Current Speed shows the current speed the vehicle is traveling on an analog speedometer.

» Satellite Information allows you to view dynamic location information received from GPS satellites. Easily see the number of satellites currently being received (up to 12).

» Estimated Time provides the estimated time of arrival for your trip, and displays this information on screen. This estimate is based on the average speed of the vehicle and will update automatically as the speed of the vehicle varies.

» Set as Point A to B calculates a route between two given points regardless of the vehicle's current position. This makes it easy when planning a trip or giving directions.

» Elevation shows the current elevation of the vehicle based on GPS elevation.

» Calculator provides an on screen calculator on your navigation display. Touch the screen or use the remote control's joystick to use the calculator.

FLEXIBILITY

Combine your NVE N872A with a wide variety of products to build the perfect navigation system for you.

» Add navigation to any Alpine AVplus Mobile Media Station, such as the IVA-D310, for full PulseTouch™ control. Also combine this unit with a wide variety of products, like the TME-M770S, TME-M710 or VPA-B211A (Vehicle-Hub), as well as many other legacy Alpine products, allowing you to build your own, perfect system.

» Includes two DVD's for full coverage of the U.S., Canada and Hawaii.

» Automatic time zone adjustment for: Pacific (PST), Mountain (MST), Central (CST), Eastern (EST), Hawaii (HST), Newfoundland (NST), Atlantic (AST), and Alaska (AKST).

» 2nd car feature allows quick recalibration of the vehicle speed sensor when moving the NVE-N872A into a second vehicle.